

Amendments to the Specification

Please replace the paragraph at page 10, lines 17 through 28 with the following amended paragraph:

The pilot tone receivers 430 show single channel, single receiver repeatability of better than 0.1 dB optical, which implies an ability to sense angles to 0.0233 radians. This is due to the high signal-to-noise ratio available with narrow detection filters (not shown) in the receivers 430. In an example embodiment, the narrow band digital filters in the receivers may use a time to frequency transformation 431. For example, a forward Fourier transform may be used to convert time data to multiple narrow band filter outputs, one of which outputs is the desired narrow band filtered signal output. For fiber optic cables, the wavelength of pilot tones (not the optical carrier) is 136 to 272 meters with current pilot tone frequency assignments. This angle resolution translates to an ability to resolve distances of +/- 0.5 to 1.0 meter. With two receivers 430a and 430b operating simultaneously and doing relative measurements for this SFR, angle accuracy and range resolution are better than 0.5 meters.